Abstract of the Disclosure

A method is disclosed for conditioning a periodic analog signal (SIN, COS) to predetermined, positive and negative desired peak values by adjusting the signal (SIN, COS) using multiplicative correcting steps, which increase or decrease the signal amplitude, and additive correcting steps, adding to the signal a constant which adjusts the signal level in a positive or negative direction, wherein the presence of a current actual peak value is detected said method providing that the difference between the actual peak value and the predetermined desired peak value is stepwise reduced by repeated adjustment of the signal (SIN, COS) using modifying steps within a part of a period of the signal (SIN, COS), each modifying step including exactly one multiplicative and exactly one additive correcting step. A device is provided for carrying out the method, including an amplitude and offset adjusting device, to which the signal (SIN, COS) is supplied and which outputs said signal (SIN, COS) in amplified or attenuated form and with an increased or decreased signal level, respectively, at its output; a peak value detector, to which the signal (SIN, COS) is supplied and which outputs the previous actual peak value at its output until it is reset via a reset input, a reference voltage source, which is adjustable through a control input, and a control circuit, connected to the control input of the reference voltage source, which it adjusts in adjusting steps from a predetermined value, corresponding to the desired peak value, to the actual peak value which is output at the output of the peak value detector, and which stores the number and direction of the adjusting steps in two storage elements and then stepwise adjusts the amplitude and offset adjusting device simultaneously, depending on the stored number and direction.